

Q5

A G T T - C

A - T T G C

		A	G	T	T	C
	0	-2	-4	-6	-8	-10
A	-2	2	0	-2	-4	-6
T	-4	0	1	2	0	-2
T	-6	-2	-1	3	4	2
G	-8	-4	0	1	2	3
C	-10	-6	-2	-1	0	4

Q6

		G	T	T	A	C
	0	-2	-4	-6	-8	-10
T	-2	-1	0	-2	-4	-6
A	-4	-3	-2	-1	0	-2
T	-6	-5	-1	0	-2	-1
A	-8	-7	-3	-2	2	0
G	-10	-6	-5	-4	0	1

Diagram illustrating a sequence alignment matrix (likely for dynamic programming) showing scores for aligning the sequence TATAG (rows) with GATTACA (columns). The matrix is a 6x7 grid. The top row represents the sequence GATTACA, and the left column represents the sequence TATAG. The starting cell (0,0) contains 0. Blue arrows trace a path from (0,0) to (1,1), (2,2), (3,3), (4,4), (5,5), and finally (6,6), indicating the optimal alignment. The final score in the bottom-right cell is 1.